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STS OPS FLIGHT PRD VOLUME II, PAYLOADS

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PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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SECTION 1410 - TEST VEHICLE METRIC SYSTEMS DESCRIPTION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	520769	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/92

ITEM NUMBER: GT1EGT

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SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

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[PRD] DATABASE RECORD:      12139      REQUIREMENT STATUS: APPROVED
DOCUMENT ID:                FLT-II      APPROVAL DATE:         08/17/98
                                     INITIAL DATE:         06/26/89
ITEM NUMBER:                G17T        DATE LAST CHANGED:      09/28/07
SECTION:                    2000        TIME LAST CHANGED:      12:31:44

REQUESTER:                  GSFC
SUBREQUESTER:               GSFC/502
TEST CODE:                  A26-35      ALPHSE      STSALL
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1. DESCRIPTION: ANCILLARY DATA TRANSMISSION TO GSFC SPIF

JSC is required to transmit the Customer Ancillary System (CAS) data to the GSFC Shuttle Payloads Center (POCC) Interface Facility (SPIF for the duration of every unclassified SS Mission, long duration simulations, and Joint Integration Simulations (JIS). User's will coordinate CAS data requirements with GSFC and provide for circuits to the SPIF.

GSFC COORDINATION: GSFC 451/Ted Sobchak/301 285-7813
GSFC 451/HTSI/Anthony Williams/301 286-4286
GSFC 428.2/HTSI/Mike Booth/ 301 286-7413
JSC COORDINATION: JSC/DEF/281 483-2411

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/17/98

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[PRD] DATABASE RECORD:      22743      REQUIREMENT STATUS: APPROVED
DOCUMENT ID:                FLT-II      APPROVAL DATE:         07/31/90
                                     INITIAL DATE:         07/31/90
ITEM NUMBER:                G18T        DATE LAST CHANGED:      09/28/07
SECTION:                    2000        TIME LAST CHANGED:      12:31:44

REQUESTER:                  GSFC
SUBREQUESTER:               GSFC/502
TEST CODE:                  ALPHSE      STSALL
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1. DESCRIPTION: STATUS DATA TRANSMISSION TO GSFC SPIF

JSC is required to transmit MCC Shuttle Status Data to the GSFC Shuttle Payloads Interface Facility (SPIF) for the duration of every unclassified SSP Mission, long duration simulations, and Joint Integration Simulations (JIS) for missions that require PDI and/or

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SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

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[PRD] DATABASE RECORD: 22743
ITEM NUMBER: G18T

PPF data.

GSFC COORDINATION: GSFC 451/Ted Sobchak/301 286-7813
GSFC 451/HTSI/Anthony Williams/301 286-4286
GSFC 428.2/HTSI/Mike Booth/301 286-7413

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/31/90

[PRD] DATABASE RECORD: 17566 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/06/94

ITEM NUMBER: G19T

[PRD] DATABASE RECORD: 22744 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 10/08/90
INITIAL DATE: 07/31/90
ITEM NUMBER: GS20G DATE LAST CHANGED: 12/05/06
SECTION: 2000 TIME LAST CHANGED: 09:37:23

REQUESTER: GSFC SDTW
SUBREQUESTER: 21SOPS OAS
TEST CODE: FREFLT LAEORY LANDNG
PREFLT STSALL

1. DESCRIPTION: RTS NETWORK SUPPORT REQUIREMENTS

GSFC is required to provide SMC SDTW/ RTS Network Support Requirements
in accordance with the following schedule:

Modification Required to AFSCN	36 Months
Multiple Payload Support	18 Months
Single Payload Support	12 Months
Shuttle Orbiter-Only Support	3 Months

RTS Network Support Requirements to be addressed to:

50SW/XP RANDY WAGNER (randy.wagner@shriever.af.mil)
FAX NO: (719) 567-6551

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[PRD] DATABASE RECORD: 22744
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CC: 21SOPS/DOD FAX NO: (408) 752-3175
22SOPS/DOO/Brian Bayless (brian.bayless@shriever.af.mil)
FAX NO: (719) 567-3264

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/08/90

[PRD] DATABASE RECORD: 521690 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-II APPROVAL DATE: 01/14/08

ITEM NUMBER: G21EKT

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SECTION 2200 - TELEMETRY DATA

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[PRD] DATABASE RECORD:	520456	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/18/94
ITEM NUMBER:	GT1EGT		

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SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	522673	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	03/17/93
		INITIAL DATE:	03/17/93
ITEM NUMBER:	G3	DATE LAST CHANGED:	02/14/03
SECTION:	2700	TIME LAST CHANGED:	14:22:00

REQUESTER:	GSFC		
TEST CODE:	ALPHSE	INFO	STSALL

1. DESCRIPTION: GSFC NISN OVERVIEW

The primary responsibility of NASA Integrated Services Network (NISN) is to interconnect overseas and domestic tracking and telemetry stations and sites, launch areas, mission and project/payload operations control centers, science data capture facilities, and network control centers in the transporting of spacecraft telemetry data, air-to-ground voice and video for command, control, tracking, orbit determination, and data acquisition. In order to meet these responsibilities the following circuits provisioning lead time have been established to assist in the planning process for NISN services. These are "Guideline" statements only, as all requirement will not have the same lead times.

Lead Time (months)	Type Service
3	Services via existing resources but requiring coordination between other NASA Centers, facilities, and users.
4	Services commonly provided by commercial carriers and that do not require special engineering; e.g., standard voice and data rates up to 1.544 MBS (T-1).
8	Services provided by commercial carrier and that require special engineering and/or carrier/NISN special equipment e.g., non-standard modems, customer non-standard interfaces and unique mux/demux arrangements.
12	Standard international services

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SECTION 2700 - COMMUNICATION

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[PRD] DATABASE RECORD: 522673
ITEM NUMBER: G3

18-24

Services requiring special engineering
and/or construction of new facilities;
e.g., new Earth stations or facilities
into remote areas, including data rates
in excess of 1.544 MBS (T-1).

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SECTION 2730 - VOICE NETWORK TRANSMISSION

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[PRD] DATABASE RECORD:	526109	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97

ITEM NUMBER: G1GT

[PRD] DATABASE RECORD:	528308	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/16/96

ITEM NUMBER: GT3T

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SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	539894	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98
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ITEM NUMBER:	GT9GT		

[PRD] DATABASE RECORD:	594258	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/14/08
		INITIAL DATE:	01/11/08
ITEM NUMBER:	GT11GT	DATE LAST CHANGED:	02/21/08
SECTION:	2734	TIME LAST CHANGED:	08:36:45
REQUESTER:	GSFC	JSC	
TEST CODE:	ALPHSE	STSALL	

1. DESCRIPTION: DSMC NETWORK SCHEDULING

SN RESOURCES

The planning week for forecast scheduling begins on the Monday, 21 days prior to the existing real-time week. Mission support and critical times for SSP should be coordinated with forecast scheduling during this week. All requests for support that are received by 1200Z the following Monday, 14 days prior to the real-time week, will be scheduled by priority. Mission support for SSP by the SN shall be requested in the form of Schedule Add Requests (SAR's) transmitted via high speed data messages from JSC to the DSMC. Changes, in the form of adds and deletes, will be utilized to accommodate schedules start/stop time differences between nominal pre-mission forecasted schedules and actual lift off time and trajectory changes. Other centers having requirements involving SN support of the SSP must coordinate their support requirements with JSC.

1. A circuit of 64 kbps between the DSMC and the MCC shall be provided for TDRSS scheduling messages. This interface shall be full duplex and shall be shared between the ISS and SSP Programs.
2. A NISN Mission Critical service is required.
3. The interface shall provide security appropriate for "Space Operation Information".
4. Refer to the JSC MCC to SN NCCDS Operational Communications ICD for MCC System (JSC 11534 Volume XVI, latest revision) for detailed interface specifications.

REF: FLT-I Section 2734 DBR 594242

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SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

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[PRD] DATABASE RECORD: 594258
ITEM NUMBER: GT11GT

ISS Vol-I Section 2734 DBR 556504

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/08

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/08

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SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	528310	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/16/96

ITEM NUMBER: GT6T

[PRD] DATABASE RECORD:	539888	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: GT32GT

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SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	539887	REQUIREMENT STATUS:	DELETED
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ITEM NUMBER:	GT4GT		

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